

G.A.T.E.WAYS has pleasure in inviting gifted and talented
Year 3 and 4 children to a 'Festival of Workshops'
 hosted by Ravenswood School for Girls, Henry Street, Gordon

MONDAY 1 JULY AND TUESDAY 2 JULY, 2019
 9.30 am to 3.15 pm (registration 8.45 am)

PROGRAM	Monday 1 July	Tuesday 2 July
1	AM: Terrific Tessellations (M) PM: Let it Grow \$3 levy FULL (S)	AM: Terrific Tessellations (M) PM: Let it Grow \$3 levy FULL (S)
2	AM: Defence and Attack: FULL (M) PM: Caught on a Cliff: Rescue Mission Alert! (S)	AM: Defence and Attack: FULL (M) PM: Caught on a Cliff: Rescue Mission Alert! (S)
3	AM: It's an Arty Adventure (L A) PM: Hold Back the Dark! Filling fast! (L)	AM: It's an Arty Adventure (L A) PM: Hold Back the Dark! (L)
4	AM: Doctor to Emergency! (S) PM: Aliens, Snails and Pizza Problems FULL (M)	AM: Doctor to Emergency! (S) PM: Aliens, Snails and Pizza Problems FULL (M)
5	AM: Great Galtons! (M) PM: A-Mazement Filling fast! (P)	AM: Great Galtons! (M) PM: A-Mazement (P)

(A) Arts: Creative or Performing (L) Language (S) Science (T) Technology (M) Maths (P) Problem Solving

Please choose one program only per day. Workshops cannot be mixed and matched.
The fee is \$107 per day.

Please bring a notebook and a well-stocked pencil case with a grey lead pencil, coloured pencils, a capsule sharpener, ruler, bright textas, scissors and glue.
Please also bring along any additional materials listed for your program.

Enrolment Procedure:

1. Go the G.A.T.E.WAYS website www.gateways.edu.au and follow the links to 'Parent Enrolled Programs' on the Home Page. Select 'Festivals'.
2. Click 'Enrol' next to Existing Account Holder OR 'Register' next to New Account. Please do not create a new account if your child has attended G.A.T.E.WAYS in the past.
3. Complete fields then click 'Continue to Program Selection'.
4. Check the box under 'Select' for the festival required, then 'Continue to Unit Selection'.
5. Select 'Enrol' for the days required. Only programs with availability can be selected.
6. Select a program and then 'Continue to Home Address'. Complete all fields and proceed to payment page.
7. If you require assistance please phone G.A.T.E.WAYS on 02 9940 0303.

Enrolments Open Now!



Year 3 and 4 Festival Workshops

9.30 am – 3.15 pm (registration from 8.45 am)

TERRIFIC TESSELLATIONS

WITH SAM MCNAIR

Since the time of ancient Sumerian patterns to today's 3D graphics, tessellation has underpinned a great deal of design. From the humble bathroom tile through to the fascinating structures atop the Palace of the Lions in Andalusia, tessellation gives us a glimpse into the infinite. This workshop takes inspiration from M.C. Escher and will allow participants to explore the infinite variety and beauty of tessellation. The underlying mathematical and engineering applications of this beautiful art form will underpin the workshop. **Bring a set of sharpened coloured pencils and an eraser.**

LET IT GROW

WITH TRACY FORBES

Join Professor Polly Mer as she investigates the amazing world of polymer science. Polymers are special substances that are all around us; they can be stretchy, bouncy, and slimy, and some can even grow! How cool is that? Have lots of fun as we plan and conduct experiments investigating growing polymers including some that are both hydrophilic and hydrophobic. If you love to experiment and have a keen interest in chemistry, then Professor Polly Mer needs *you*. At the end of the workshop you will take home your very own growing polymers for a follow-up experiment. This is one science session that will definitely grow on you! ***This program has a \$3 levy payable on enrolment.***

DEFENCE AND ATTACK: WILL VICTORY BE YOURS?

WITH ERIN MANSELL

Have you ever wondered whether a Minecraft village could be built to protect your own avatar from mobs? Well, your avatar has survived the Overworld, but unfortunately your village has been destroyed. Now it is time to rebuild the village and defend it from the new hordes of creepers, zombies and skeletons that are fast approaching. Having successfully rebuilt the village, can you find the End Portal and defeat the Ender Dragon? In this workshop, you will work in teams to construct a scale village using cardboard cubes of different net designs. You will need to crack a code to gain entry to the End Portal and complete a series of challenges to prepare you to face the dragon. Who will be triumphant? Will it be *your* team?

CAUGHT ON A CLIFF: RESCUE MISSION ALERT!

WITH MICHELLE EMSLEY

Good friends, Charlotte and Chen have been trekking in the Blue Mountains for the last forty-eight hours. Two hours ago, the weather turned sour and unfortunately, they were caught in a bit of a landslide. Chen has broken his leg and Charlotte has lost her shoes. Now they're stuck on a cliff edge, are running low on food and water and desperately need HELP. You've been asked to plan the rescue mission. You need to decide on when to head to the mountain. You check the weather forecasts but they're confusing. One report warns of a cyclone; another is predicting a blizzard and still another says that the bad weather will blow over in the next six hours. You will have to work with the consultant meteorologist to discover more about these weather events. You'll then use this knowledge to help you analyse some data and establish which weather forecast is correct. Once you've done that, you'll need to decide on the best way to reach Charlotte and Chen. Would a helicopter be best? Or a hot air balloon? Or even going there on foot? Only you can decide! Can you predict the weather and plan a rescue mission to return Charlotte and Chen to safety?

Bring two clean 2 litre plastic bottles of the same size.

IT'S AN ARTY ADVENTURE

WITH SAPPHO DALZIELL

Many of the world's famous artists such as Frida Kahlo, Pablo Picasso, Andy Warhol, Jackson Pollock, and Yayoi Kusama (to name but a few) had fascinating childhoods where their artistic passions played out in a variety of ways. How did they harness their skills, develop their ideas and realise their dreams? In this workshop we'll explore their fascinating stories, and the clever and quirky routines and rituals that they followed. Does any of this sound familiar? Could the 'art' also lie in YOU? What are YOUR raw talents, passions or hilarious habits...the things that you just can't help but do, that you can't live without? After investigating our artists and looking within at ourselves, we'll select a famous artwork or two to inspire our own mini-masterpiece series. Will you render with some realism, or play with pop-art? Will you amuse with abstraction, or be sensational with surrealism? The possibilities are endless! **Bring coloured pencils, textas, a sharpener and a sketchpad.**

HOLD BACK THE DARK!

WITH ZUZI FORT

The Dark Lord with his army of vicious beasts has taken control of the fantasy world. Now he is determined to open a portal to the human world, to enslave it as well!!!

Beginning with a series of games and improvisations to help us make a break with conventional writing rules, and visual stimuli to aid us in our task, you shall create a place like no other! Come up with the Who, What, Where and Why to make your world as stupendous and as fantastical as possible. Don't forget to defy reality! Then create a complex, epic hero with amazing powers and unbelievable sidekicks, as well as a nemesis for this hero; a Dark Lord. **Can our heroes, both human and magical, stop him in time and save both worlds?**

DOCTOR TO EMERGENCY!!

WITH KATE PARKER

Doctor on call!! Could you survive a fast-paced emergency department with patients suffering from all types of maladies? Would you be able to accurately diagnose tricky illnesses, solve medical puzzles and save your sick patients? Medicine is all about problem solving and this workshop will prepare you so that you can put your medical detective skills to the test! Is your very sick patient suffering an allergic reaction or having a heart attack? Are they thrombotic or just dehydrated? Check your medical manual! You'll need to ask the right questions, take thorough notes and consult a team of emergency specialists. You will have to make a quick decision to solve your diagnostic dilemma! With the patient diagnosed, quick treatment is paramount. But be warned, time is running out – blood now? STAT!

ALIENS, SNAILS AND PIZZA PROBLEMS

WITH VANESSA RYAN-RENDALL

What a strange sight! On one side of our room are ladder wielding snails, on the other is a table set for a feast and at the back aliens of all shapes and sizes are milling. But yum... the smell of delicious pizza is luring us to step inside. Unfortunately, we must clamber over towers of empty pizza boxes to get to the feast. And then.. a further problem! How will we share the feast to prevent the aliens (or hungry-looking snails) from eating us? In this workshop, we will learn how mathematical formulas can help us with such dilemmas. You will be introduced to basic formulas first, and then we will work our way up to the tricky food and snail related ones! Will you be able to slice a block of cheese into 64 equal pieces and a pizza into 29? Can you discover how to use a ladder to be the first get to the cheese and can you discover how to communicate to every alien in the galaxy that the pizza is all yours? After this workshop you might wonder - is pizza the savior of humanity? *Please bring a calculator, ruler and protractor (labelled with your name).*

GREAT GALTONS!

WITH LESLIE MARSH

Attention! Thieves have broken into the ancient Museum of Statistology and stolen the Charter of Large Numbers! Detective-Professor Galton is in charge of the investigation and is trying to catch the crooks with a new invention - the Predictive Policing Machine. There's only one problem - the machine isn't working very well. This is where you come in. As a mathematical archaeologist, you have uncovered a mysterious, centuries-old formula, called the Central Limit Theorem. Professor Galton thinks it might be the key to fixing the Prediction Machine. Starting with the simple concept of averages, you will build up an understanding of one of the most startling results in statistics - the CLT - a theorem that has underpinned modern data science and machine learning. But hurry! The clock is ticking, and the robbers are getting away - your job is to fix the Professor's machine and predict where the thieves are headed. *Bring scissors, a ruler and a calculator (labelled with your name).*

A-MAZEMENT

WITH DIANA THANOS

Come and be amazed by the history and intricacy of mazes in this interactive and engaging workshop. We have all had fun doing mazes, but what do they really represent? Who invented them and why? What mysteries do they contain? Mazes have been found in nearly every ancient culture and still play a role in our modern world. Come and explore the nature of mazes and labyrinths, examine artefacts, discover Knossos, the Minotaur and the ancient Minoan civilisation of Crete. Were there really 3000 rooms in the Egyptian labyrinth? What did the ancient Romans use mazes for? How and why do we still use them today? What will A-MAZEMENT reveal or hide? The only way to find out is to join us on this compelling quest into the ancient world of mazes.

**Our Festival presenters are a brilliant bunch! To learn more about them, head to
www.gateways.edu.au/programs/festivals/mid-year-festivals**



GATEWAYS

25

years of
inspiration
and challenge

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